Clack®

WS1.5EI

TWIN ALTERNATING CONTROL VALVE

WATER SPECIALIST CONTROL VALVE

INDEPENDENTLY NSF CERTIFIED

Certified to NSF/ANSI/CAN 61 and 372.

Interconnect fittings and piping not supplied.

- Service flow rate of 204 lpm (12.3 m^3/h) (54 gpm), backwash flow 83 lpm, (4.9 m^3/h), (22 gpm), with built in meter on side port of valve body and fitting kit installed
- Solid state microprocessor with easy access front panel settings
- Four methods to initiate regeneration; meter immediate, meter delayed, time clock delayed or pressure differential
- Program in ppm, French degrees, German degrees, or cubic meters
- Programmable regeneration cycle times
- Days override feature; 1 - 28 days available
- Backwash and brining ability for Softeners to 24" diameter tanks, backwash filters to 18”
- Downflow/upflow regeneration
- Stores system configuration and operation data in nonvolatile memory
- Coin Cell Lithium battery back-up with an 8 hour carry over
- Level VI 15-volt output DC power supply provides safe and easy installation
- Control valve design provides optimum service and backwash rates
- Soft/treated water regeneration
- Pre or post soft/treated water regenerant refill
- 12-hour clock
- Reliable and proven DC drives
- One piece expanding seal spacer stack assembly
- Linearly reciprocating piston operation

Water Specialist 1.5" EI Twin Alternating Specifications

Inlet/Outlet Fittings	1.5" QC fitting optional straight or 90°
Cycles	6
Valve Material	Glass Filled Composite
Regeneration	Downflow/Upflow

FLOW RATES

Service @ 15 psi drop (includes fitting kit and meter)	204 lpm (12.3 m^3/h) (54 gpm)
Backwash @ 25 psi drop (includes fitting kit)	83 lpm (4.9 m^3/h) (22 gpm)
Cv Service	13.9
Cv Backwash	4.4

OPERATING PRESSURES

Minimum/Maximum	20 psi - 125 psi (1.4 - 8.6 bar)

OPERATING TEMPERATURES

Minimum/Maximum	40° - 110°F (4 - 43°C)

METER

Accuracy	± 5%
Flow rate range	0.95 - 216 lpm
Volume range	0.02 - 5,700 m^3
Totalizer	1 - 99,999 m^3

DIMENSIONS AND WEIGHT

Distributor pilot	50mm or 1.90" OD (1.5" NPS)
Drain line	1” Male Elbow BSPT or NPT
Brine line	½" OD Poly Tube Compression
Mounting base	4" - 8 UN Thread
Height from top of tank	11"
Weight	18 lb

ELECTRICAL SPECIFICATIONS	**POWER SUPPLY**
	U.S.
Supply voltage	100VAC to 240VAC
Supply frequency	50/60 Hz
Output voltage	15VDC
Output current	500 mA

TANK APPLICATIONS

Water softener	12" - 24" diameter
Water filter (1)	12" - 18" diameter

CYCLES OF OPERATION (Softener / Filter)

Cycle	Softener Range of time in minutes	Filter
1. Backwash 1st	Off-120	Backwash Off-120
2. Regenerate Draw/Slow Rinse	Off-180	
3. Backwash 2nd	Off-120	
4. Fast Rinse	Off-120	Rinse Off-120
5. Regenerant Refill	0.1-99.0 or Off	
6. Service (downflow)		

Options: Backwash Filter, Weather Cover

Compatible with the following typical concentration of regenerants or chemicals: Sodium chloride, potassium chloride, chlorine and chloramines

1. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area